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**Abstract**

- 5 The invention relates to a detector unit which is made for connection to an optical bus which is formed by detector units of the same type arranged adjacently. The detector unit has a light transmitter, a light receiver and at least one optical connection path by which two optical interfaces are optically connected. At least one optical anomaly is arranged along the
- 10 optical connection path which is made for the coupling of light of the light transmitter into the optical connection path and for the coupling of light out of the optical connection path to the light receiver.